



# KELMAR<sup>®</sup> MERDEK MEMBRANE

## Flexible Epoxy Urethane Hybrid Membrane

### Description

KELMAR<sup>®</sup> MERDEK MEMBRANE is a 100% solids, flexible epoxy urethane hybrid membrane formulated to provide a tough, seamless waterproofing system which meets industry crack bridging requirements. It is used as a base coat in the KELMAR<sup>®</sup> MERDEK SYSTEM. KELMAR<sup>®</sup> MERDEK MEMBRANE does not usually require a primer as it adheres tenaciously to concrete; primer may be required or beneficial under certain conditions. KELMAR<sup>®</sup> MERDEK MEMBRANE maintains its flexibility at low temperatures.

### Typical Uses

- Parking structures
- Mechanical equipment rooms
- Pedestrian walkways
- Balconies and terraces
- Plaza and rooftop decks
- Stadiums and arenas
- Wherever a waterproof floor is required

### Features

- No odor
- Excellent waterproofing properties
- Flexible at temperatures below freezing
- Seamless: protection from moisture intrusion
- Formulated to accept Top Coats

### Physical Properties

- **Crack Bridging:** Pass 10 cycles ASTM C1305
- **Pot Life:** 26 minutes @ 24°C (75°F)
- **Viscosity:** 2000 cps ASTM D2196 @ 24°C (75°F)
- **Tensile Strength:** 1500 psi ASTM D412
- **Tensile Elongation:** 200% ASTM D412
- **Peel Adhesion:** 30 Pli ASTM D903
- **Cure time:** 8-10 hrs @ 24°C (75°F)
- **Solids:** 99.7%
- **VOC Content:** <5 g/L less water

### Limitations

- All substrates must be sound, clean, dry (ASTM D4263) and free from all contaminants
- Substrate and air temperatures must be between 10-32°C (50-90°F) throughout installation cycle
- Store in a dry area between 10-32°C (50-90°F)
- DO NOT FREEZE
- Consult with R & D Technical Solutions Ltd. to confirm the appropriate installation conditions to achieve long term performance
- If concrete is susceptible to outgassing, priming with Monobond or Monobond 100 is recommended

### Application

- 2:1 Mix Ratio (2 Parts Resin to 1 Part Hardener)
- Surface must be checked for soundness and any hollow areas must be removed. All depressions and spalled areas and cracks must be pre-filled with approved products
- Concrete substrate must have the laitance removed by shot blasting or diamond grinding
- Detailing work such as injection and treatment of control and expansion joints shall be according to specification recommendation

### Theoretical Coverage

- 80 sq. ft. per gallon at 20 wet mils
- 64 sq. ft. per gallon at 25 wet mils
- Coverage will vary depending on aggregate size
- Mix ratio – 2 Parts Resin:1 Part Hardener

### Safety Precautions

Please refer to product Safety Data Sheet

R&D Technical Solutions Ltd.

7000 Davand Drive, Mississauga, ON L5T 1J5 Canada Tel: 905.795.9900 Toll Free: 800.387.5703 Fax: 905.795.9912

[www.kelmar.com](http://www.kelmar.com)

[www.rdsolutions.ca](http://www.rdsolutions.ca)

Revision Date: January 29, 2019